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NOTICE OF ALLOWANCE AND FEE(S) DUE

7500	05/18/2006

Kris T, Fredrick Patent Services Honeywell International Inc. 101 Columbia Road Morristown, NJ 07962 EXAMINER

LIU, BEN H

ART UNIT PAPER NUMBER

2416 DATE MAILED: 05/18/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/705.802	11/10/2003	Pamela A. Binns	H0004069	4783

TITLE OF INVENTION: REAL-TIME ESTIMATION OF EVENT-DRIVEN TRAFFIC LATENCY DISTRIBUTIONS WHEN LAYERED ON STATIC

SCHEDULES

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	08/18/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FIEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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Kris T. Fredrick Patent Services Honeywell Intern	national Inc.	/2009			I her State addre trans	Cer eby certify that the es Postal Service we essed to the Mail mitted to the USP	tificate is Fee(s rith suf Stop FO (57	of Mailing or Trans Transmittal is being ficient postage for first ISSUE FEE address 273-2885, on the d	mission deposi t class above, ate indi	ted with the United mail in an envelope or being facsimile cated below.
101 Columbia R Morristown, NJ										(Depositor's name)
	· · · · · ·									(Signature)
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APPLICATION NO.	FILING DATE			FIRST NAMED INVENTOR			ATTORNEY DOCKET NO. CONFIRMATION			
10/705,802	11/10/2003			Pamela A. Binns				H0004069		4783
TITLE OF INVENTION SCHEDULES	: REAL-TIME ESTIM								STAT	
APPLN. TYPE	SMALL ENTITY	ISSU	E FEE DUE	PUBLICATION FEE D	UE	JE PREV. PAID ISSUE FEE TOTAL FEE(S) DU				DATE DUE
nonprovisional	NO		\$1510	\$300		\$0	\$0 \$1810			08/18/2009
EXAM	INER	А	RT UNIT	CLASS-SUBCLASS						
LIU, B			2416	370-232000	_					
"Fee Address" indi PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A	ondence address (or Cha //122) attached. cation (or "Fee Address 2 or more recent) attach ND RESIDENCE DATA ess an assignee is ident n in 37 CFR 3.11. Comp	nge of Co " Indicati ed. Use o	on form of a Customer PRINTED ON T		ip to nativ single or a attor il be p or typ he pa	3 registered paten ely, e firm (having as a gent) and the nam neys or agents. If printed. e) ttent. If an assign assignment.	memb es of up no nam	er a 2	ocumen	t has been filed for
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NOTE: The Issue Fee and interest as shown by the r	Publication Fee (if requeended of the United Sta	uired) wi tes Paten	II not be accepted t and Trademark	d from anyone other the Office.	nan ti	ne applicant; a regi	stered a	ittorney or agent; or th	e assigi	ace or other party in
Authorized Signature						Date				
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10/705,802	11/10/2003	Pamela A. Binns	H0004069	4783	
75	90 05/18/2009	EXAMINER			
Kris T. Fredrick	Cris T. Fredrick		LIU, BEN H		
Patent Services			ART UNIT	PAPER NUMBER	
Honeywell Internat 101 Columbia Roa			2416 DATE MAIL ED: 05/18/200	0	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 982 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 982 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No. Applicant(s) 10/705 802 BINNS, PAMELA A. Notice of Allowability Examiner Art Unit BEN H LIU 2416 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to 25 February, 2009. 2. The allowed claim(s) is/are 1-8 and 14-16 (re-numbered 1-11 respectively). 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) \square All b) ☐ Some* c) ☐ None of the: 1. T Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. | Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date Information Disclosure Statements (PTO/SB/08). 7. Examiner's Amendment/Comment Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit 8. X Examiner's Statement of Reasons for Allowance of Biological Material

9. ☐ Other .

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DETAILED ACTION

Response to Amendment

This is in response to an amendment/response filed on February 25th, 2009.

Claims 1 and 5 have been amended.

No claims have been cancelled.

Claims 14-16 have been added.

5. Claims 1-8 and 14-16 are allowed.

Response to Arguments

6. Claims 1-8 and 13 were previously rejected under 35 U.S.C. 101 because the claimed invention is not implemented on a specific apparatus and merely manipulates an abstract idea and solves a purely mathematical problem without any limitation to a practical application. It is noted with appreciation that the Applicant has amended claims 1 and 5 to overcome the rejection. The claims recite "simultaneous scheduling of aperiodic messages and periodic transmission on a common bus." The newly amended claims now further recites "transmitting the aperiodic messages." Therefore, the claimed invention is implemented on the common bus to transmit the scheduled aperiodic and periodic transmissions. Thus, the implementation on the common bus precludes the claims from being interpreted as a series of mental steps without a physical embodiment. In response, the claim rejection has been withdrawn. The newly added limitations of claims 1 and 5 are also included in new claims 14-16. Therefore, new claims avoid similar 35 U.S.C. 101 rejections.

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Reasons for Allowance

The following is an examiner's statement of reasons for allowance:

For independent claim 1, the prior art fails to show alone or in combination a method and system for managing data flow in a system with simultaneous scheduling of aperiodic messages and periodic transmissions on a common bus. The prior art of Levy et al. (U.S. Patent Application Publication 2003/0233445) disclose a method for estimating the latency in a network communication by using measured latency data points for analysis. However, Levy et al. fails to specifically recite estimating the aperiodic latency probability at an inflection point in the hyperperiod of interest, wherein the aperiodic latency probability is "equal to the number of sample data points less than or equal to the said inflection point divided by the total number of collected aperiodic latency sample data points, said data points forming a data point plot that is assumed to be linear between said aperiodic latency inflection points." Independent claims 5 and 14 are allowable because they contain similar limitations. Dependent claims 2-4, 6-8, and 15-16 are allowable because they depend on the allowed claims.

Conclusion

 Any inquiry concerning this communication or earlier communications from the examiner should be directed to BEN H. LIU whose telephone number is (571)270-3118. The examiner can normally be reached on 9:00AM to 6:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ricky Ngo can be reached on (571)272-3139. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2416

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Ricky Ngo/ Supervisory Patent Examiner, Art Unit 2416

BL